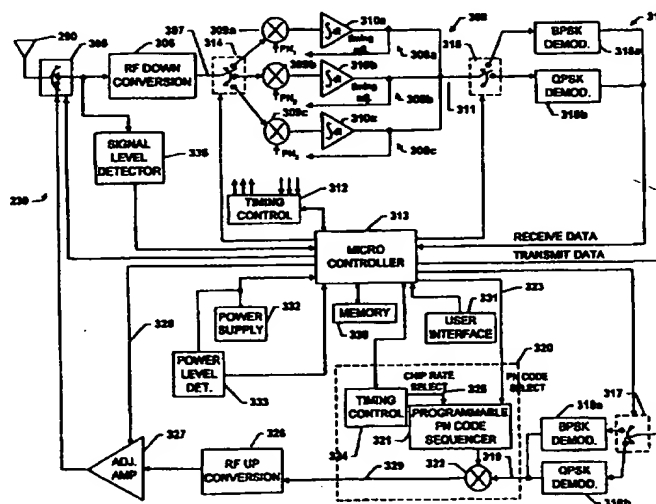




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04L 12/28		A2	(11) International Publication Number: WO 97/21294
			(43) International Publication Date: 12 June 1997 (12.06.97)
(21) International Application Number: PCT/US96/19336		(81) Designated States: AU, CA, JP, MX, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(22) International Filing Date: 4 December 1996 (04.12.96)			
(30) Priority Data: 08/566,502 4 December 1995 (04.12.95) US		Published <i>Without international search report and to be republished upon receipt of that report.</i>	
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(54) Title: CELLULAR COMMUNICATION SYSTEM WITH DYNAMICALLY MODIFIED DATA TRANSMISSION PARAMETERS



(57) Abstract

An apparatus and process for improving the performance of a cellular communication system using direct sequence spread spectrum techniques. The apparatus and process enable dynamic modification of communication system parameters including PN code length, chipping rate and modulation technique for transmission of a data packet. Modification is based on proximity of the transmitter and receiver, transmitter and receiver capabilities, and other factors. The system evaluates tradeoffs between data transmission speed and communication range to improve system performance.

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